

Claims

1. Modified pyrroloquinoline quinone dependent glucose dehydrogenase (PQQGDH) which has a lower action property on disaccharide than wild type PQQGDH.
- 5 2. The modified pyrroloquinoline quinone dependent glucose dehydrogenase (PQQGDH) according to claim 1, which has more enhanced stability than the wild type PQQGDH.
- 10 3. A method of enhancing a specific activity in an assay system using ferricyanide ion as a mediator compared with a wild type by deleting, substituting or adding one or more amino acids in an amino acid sequence of wild type pyrroloquinoline quinone dependent glucose dehydrogenase (PQQGDH).
- 15 4. Modified pyrroloquinoline quinone dependent glucose dehydrogenase (PQQGDH) having more enhanced specific activity than a wild type in an assay system using ferricyanide ion as a mediator by the method according to claim 3.
- 20 5. A gene encoding the modified PQQGDH according to claim 1 or 3.
6. A vector comprising the gene according to claim 5.
- 25 7. A transformant transformed with the vector according to claim 6.
8. A method of producing modified PQQGDH characterized by
- 30 culturing the transformant according to claim 7.
9. A glucose assay kit comprising the modified PQQGDH according to claim 1 or 3.
- 35 10. A glucose sensor comprising the modified PQQGDH according

to claim 1 or 3.

11. A method of measuring glucose comprising the modified PQQGDH according to claim 1 or 3.